

# ***LIGHT EMITTING DIODE-BASED SIGNAL LIGHT***

## **Abstract of Disclosure**

A light-emitting diode-based light source (40) for retro-fitting into a traffic signal lamp (10) employing an incandescent light bulb (12) includes at least one light emitting diode (LED) (46), a dispersing reflector (62) cooperating with the at least one LED (46) to adapt light (60) produced by the at least one LED (46) for receipt by optics of the traffic signal lamp (10), and a screw-type electrical connector (42) adapted to mate with a threaded socket connector (18) of the traffic signal lamp (10). The screw-type electrical connector (42) is adapted to transmit electrical power to the at least one LED (46). A method (100) is provided for the retro-fitting, including the step (104) of removing the threaded light bulb (12) from the threaded socket (18), and the step (106) of connecting the threaded LED light source (40) into the threaded socket (18).

## Figures

11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.	71.	72.	73.	74.	75.	76.	77.	78.	79.	80.	81.	82.	83.	84.	85.	86.	87.	88.	89.	90.	91.	92.	93.	94.	95.	96.	97.	98.	99.	100.
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.	71.	72.	73.	74.	75.	76.	77.	78.	79.	80.	81.	82.	83.	84.	85.	86.	87.	88.	89.	90.	91.	92.	93.	94.	95.	96.	97.	98.	99.	100.